

Figure 4. Behavioral correlates of methamphetamine and valproate treatment.

(A) Parameters measuring quantity and quality of locomotor behavior in open field in drug treated animals compared to saline.

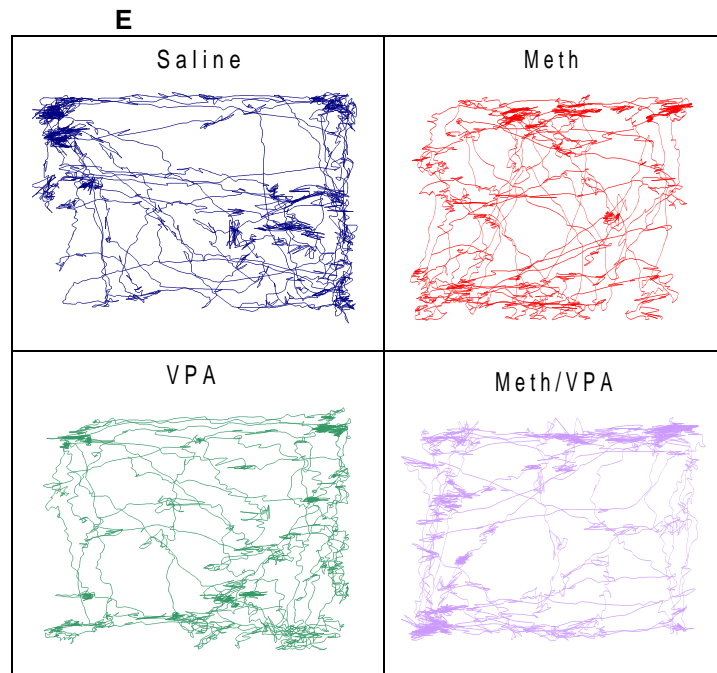
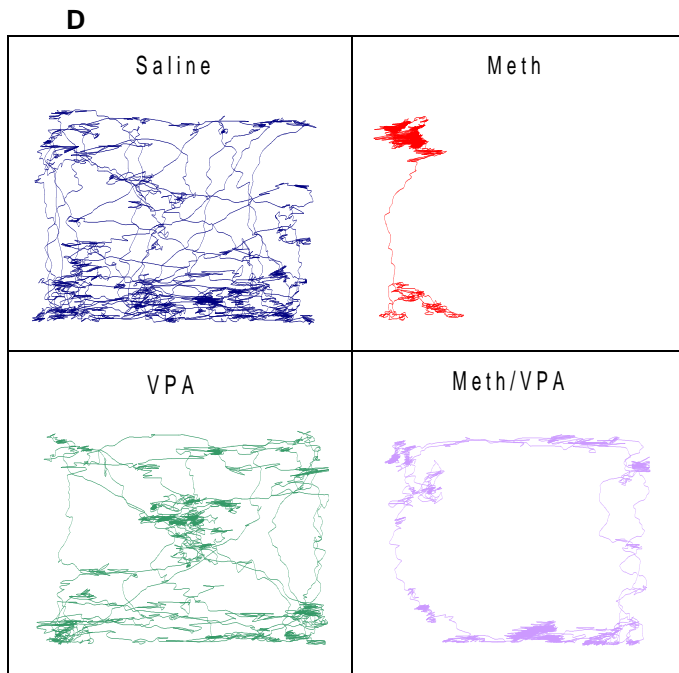
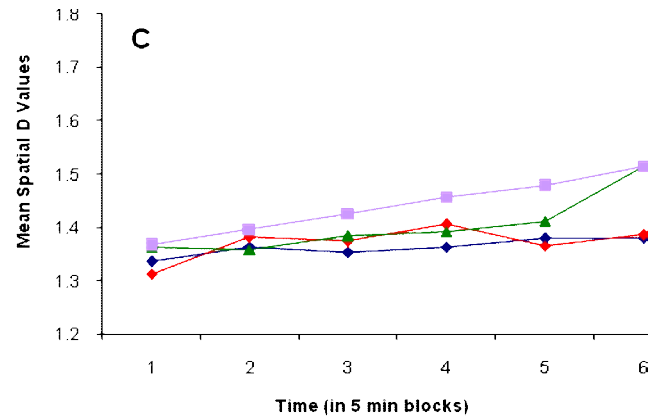
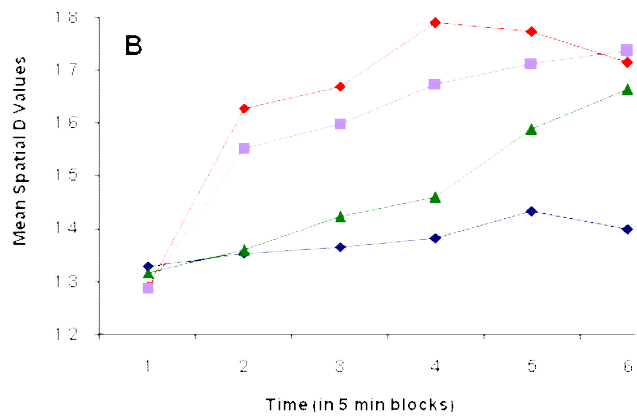
↑ increase ↓ decrease ↔ no change, * significant (p < 0.05) compared to saline treated animals.

Meth- Methamphetamine 10mg/kg. VPA- Valproate 200mg/kg.

(B, C) Behavioral organization and stereotypal behavior. Mean spatial D values in first 30 minutes after injection (B), and repeat measure 24 hours after injection (C).

(D, E) Representative individual mice movement patterns in a 5 minute (between 15 and 20 minutes) interval after injection (D), and a repeat measure 24 hours later (E). Animals with spatial D values closest to the mean for its group during the 15-20 min time intervals were chosen for illustration.

A	Meth		VPA		Meth + VPA	
	30min	24hrs	30min	24hrs	30min	24hrs
Total Distance	↑	↓	↓	↓*	↔	↓*
Total Crossings	↓	↓	↓	↓	↓*	↓*
Center Duration	↓*	↑	↑	↑	↓	↔



- Saline (N=12)
- Meth 10 mg/kg (N=12)
- VPA 200 mg/kg (N=12)
- Meth 10 mg/kg and VPA 200 mg/kg (N=12)